PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of:

Kikuji YAMASHITA et al.

Serial Number: Not Yet Assigned

Filed: July 2, 2001

For: ORGANISM-COMPATIBLE MATERIALS WITH COMBINED EXTRA-CELLULAR MATRICES, EXTRACELLULAR-MATRIX PREPARATIONS, AND PRODUCTION METHODS

PRELIMINARY AMENDMENT

Assistant Commissioner
For Patents
Washington, D.C. 20231

July 2, 2001

Sir:

Prior to calculation of the fee and examination on the merits of the above-identified patent application, please amend the application as follows:

IN THE CLAIMS:

Please amend claim 3 to read as follows:

3. **(Amended)** An organism-compatible material with combined extracellular matrices as claimed in claim 1, wherein said cells are osteoblasts, chondroblasts, tendon cells, vascular endothelial

cells, epithelial cells, connective tissue cells, or glia cells.

Please amend claim 4 to read as follows:

4. **(Amended)** An organism-compatible material with combined extracellular matrices as claimed in claim 1, which includes said cells.

Please amend claim 7 to read as follows:

7. **(Amended)** A production method of an organism-compatible material with combined extracellular matrices as claimed in claim 5, wherein the base is a piece of glass, a piece of polymer, or a ceramic overlaid with titanium or a titanium alloy.

Please amend claim 8 to read as follows:

8. **(Amended)** A production method of an organism-compatible material with combined extracellular matrices as claimed in claim 5, wherein a calcification layer is formed on a surface of the base

in a culture solution in advance.

Please add claims 14-21:

14. **(New)** An organism-compatible material with combined extracellular matrices as claimed in claim 2, wherein said cells are osteoblasts, chondroblasts, tendon cells, vascular endothelial cells, epithelial cells, connective tissue cells, or glia cells.

15. **(New)** An organism-compatible material with combined extracellular matrices as claimed in claim 2, which includes said cells.

16. **(New)** An organism-compatible material with combined extracellular matrices as claimed in claim 3, which includes said cells.

17. **(New)** An organism-compatible material with combined extracellular matrices as claimed in claim 14, which includes said cells.

18. **(New)** A production method of an organism-compatible material with combined extracellular matrices as claimed in claim 6, wherein the base is a piece of glass, a piece of polymer, or a ceramic overlaid with titanium or a titanium alloy.

19. **(New)** A production method of an organism-compatible material with combined extracellular matrices as claimed in claim 6, wherein a calcification layer is formed on a surface of the base in a culture solution in advance.

20. **(New)** A production method of an organism-compatible material with combined extracellular matrices as claimed in claim 7, wherein a calcification layer is formed on a surface of the base in a culture solution in advance.

21. **(New)** A production method of an organism-compatible material with combined extracellular matrices as claimed in claim 18, wherein a calcification layer is formed on a surface of the base in a culture solution in advance.

REMARKS

The claims have been amended to remove multiple dependencies. New claims have been added to cover embodiments deleted by the amendments to the original claims.

Attached hereto is a marked-up version of the changes made to the claims by the current amendment. The attachment is captioned **"VERSION WITH MARKINGS TO SHOW CHANGES MADE."**

In the event any additional fees are required, please charge our Deposit Account No. 111833.

Respectfully submitted,

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE CLAIMS:

Claim 3 has been amended as follows:

3. **(Amended)** An organism-compatible material with combined extracellular matrices as claimed in claim 1 [~~or 2~~], wherein said cells are osteoblasts, chondroblasts, tendon cells, vascular endothelial cells, epithelial cells, connective tissue cells, or glia cells.

Claim 4 has been amended as follows:

4. **(Amended)** An organism-compatible material with combined extracellular matrices as claimed in claim 1, [~~2, or 3~~] which includes said cells.

Claim 7 has been amended as follows:

7. **(Amended)** A production method of an organism-compatible

material with combined extracellular matrices as claimed in claim 5 [~~or 6~~], wherein the base is a piece of glass, a piece of polymer, or a ceramic overlaid with titanium or a titanium alloy.

Claim 8 has been amended as follows:

8. **(Amended)** A production method of an organism-compatible material with combined extracellular matrices as claimed in claim 5, [~~6, or 7~~] wherein a calcification layer is formed on a surface of the base in a culture solution in advance.

New claims 14-21 have been added:

14. **(New)** An organism-compatible material with combined extracellular matrices as claimed in claim 2, wherein said cells are osteoblasts, chondroblasts, tendon cells, vascular endothelial cells, epithelial cells, connective tissue cells, or glia cells.

15. **(New)** An organism-compatible material with combined extracellular matrices as claimed in claim 2, which includes said

cells.

16. **(New)** An organism-compatible material with combined extracellular matrices as claimed in claim 3, which includes said cells.

17. **(New)** An organism-compatible material with combined extracellular matrices as claimed in claim 14, which includes said cells.

18. **(New)** A production method of an organism-compatible material with combined extracellular matrices as claimed in claim 6, wherein the base is a piece of glass, a piece of polymer, or a ceramic overlaid with titanium or a titanium alloy.

19. **(New)** A production method of an organism-compatible material with combined extracellular matrices as claimed in claim 6, wherein a calcification layer is formed on a surface of the base in a culture solution in advance.

20. **(New)** A production method of an organism-compatible material with combined extracellular matrices as claimed in claim 7, wherein a calcification layer is formed on a surface of the base in a culture solution in advance.

21. **(New)** A production method of an organism-compatible material with combined extracellular matrices as claimed in claim 18, wherein a calcification layer is formed on a surface of the base in a culture solution in advance.